(b) 1,2-dihydroxypropyl agarose, at least one of which has been depolymerized after its derivatization.

12. The compositions of any one of preceding claims **1**, or **2** wherein hydroxyethyl agarose is the depolymerized hydrogel.

13. The compositions of any one of preceding claims **1**, or **2** wherein 1,2-dihydroxypropyl agarose is the depolymerized hydrogel.

14. The compositions of any one of preceding claims **1**, or **2** wherein said resolving gel viscosity is reduced to about 5–40 cps when measured at 75° C. in a 3% aqueous solution.

15. The composition of claim **14** wherein said viscosity reduction is effected by at least one of: acid hydrolysis; alkaline hydrolysis; catalytic hydrolysis; enzyme hydrolysis; exposure to gamma radiation; exposure to radiation other than gamma; mechanical shearing; or thermal depolymerization.

16. The composition of claim **14** wherein said viscosity reduction is effected by at least one of: acid hydrolysis; exposure to gamma radiation; or thermal depolymerization.

17. The composition of claim **14** wherein said viscosity is reduced by exposure to gamma radiation.

18. The composition of claim **14** wherein said viscosity is reduced by thermal degradation.

19. The composition of claims **1**, or **2** wherein the total hydrogel content of the resolving gel is about 2–12% w/v of the resolving gel.

20. The composition of claims **1**, or **2** wherein the total hydrogel content of the resolving gel is about 4–8% w/v of the resolving gel.

21. The composition of claims **1**, or **2** wherein said resolving gel buffer comprises at least one of HEPES, glycine, Tris, triethanolamine, or triethylamine.

22. The composition of claims **1**, or **2** wherein said resolving gel buffer comprises a borate compound or complex.

23. The composition of claims **1**, or **2** wherein said resolving gel buffer is Tris-borate, said stacking gel buffer when present is Tris-glycine, and said electrode buffer when present is Tris-HCl.

24. The composition of claim **2** wherein the discontinuity is at least partially based upon pores of said resolving gel being smaller than pores of said stacking gel.

25. The composition of claim **2** wherein said discontinuity is at least partially based upon a differential between said resolving gel composition and said stacking gel composition as to at least one of: ionic strength, ionic composition, or pH.

26. The composition of claim **2** wherein said stacking gel comprises an agarose or derivatized agarose having a high gel strength and a low (EEO) value.

27. The composition of claim **25** wherein said EEO value has an electroendomosis value, (M_n) of from (−) 0.15 to (+) 0.05.

28. The composition of claim **25** wherein said EEO value has an electroendomosis value, (m_r) of from (−) 0.10 to (+) 0.05.

29. The composition of claim **25** wherein said EEO value has an electroendomosis value, (m_r) of from (−) 0.03 to (+) 0.03.

30. The composition of claim **25** wherein said EEO value has an electroendomosis value, (m_r) approaching zero.

31. The composition of claim **2** wherein said discontinuous stacking gel is EDAC-agarose or 1-ethyl-3(3-dimethylaminopropyl)carbodiimide hydrochloride-treated ion-exchanged agarose (EDAC-agarose) or dimethylaminoethyl-agarose (DEAE-agarose).

32. The composition of claim **2** wherein said polyol is present in about 1–5 % wt of the resolving gel composition.

33. The composition of claim **2** wherein said polyol is present and is: ethylene glycol, glycerol, sucrose, sorbitol, a polyoxyethylene glycol of 200–600D, or a mixture thereof.

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